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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/755,835	01/12/2004	Peter Daniel Birk	AUS920030095US1	9841	
40412 7590 07/13/2007 IBM CORPORATION- AUSTIN (JVL) C/O VAN LEEUWEN & VAN LEEUWEN			EXAMINER		
			ALMEIDA, DEVIN E		
PO BOX 90609 AUSTIN, TX 78709-0609			ART UNIT	PAPER NUMBER	
			2132		
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			MAIL DATE	DELIVERY MODE	
	•		07/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s)			1				
### Examiner Devin Alimetids 2132 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. E tentilous of time may be arabited under the provisions of 37 CFR 1,138(a). In no event, however, may a reply be timely find in the provision of 37 CFR 1,138(a). In no event, however, may a reply be timely find the second time to the provision of 37 CFR 1,138(a). In no event, however, may a reply be timely find the timelian to provision of 37 CFR 1,138(a). In no event, however, may a reply be timely find the second time to the maintain statutory period to the communication. Part of the maintain status of the communication of the provision of the above claim(s)isfare allowed. 4) Claim(s)isfare allowed. 4) Claim(s)isfare allowed. 5) Claim(s)isfare allowed. 6) Claim(s)isfare allowed. 6) Claim(s)isfare allowed. 7) Claim(s)isfare allowed. 8) Claim(s)isfare allowed. 8) Claim(s)isfare allowed. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed onisfare: a) accepted or b)objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed copies of the priority documents have been received. 2) Certified copies of the priority documents have been received in Application No 3) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.		Application No.	Applicant(s)				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be a valiable under the provisions of 37 CPR 1.35(s). In ex event, however, may a reply be timely filed after 3X (s) MONTHS from the mailing date of this communication. Fallius to reply within the act or oriented period for expert will, yet fallow, cause the application to become AR ADMONTE (0.3 U. S. C. § 1.30). Any reply received by the Office later than three months after the mailing date of the communication, even if timely filed, may reduce any seamed patter them adjustment. Sea 37 CPR 1.704(s). Status 1) □ Responsive to communication(s) filed on 23 May 2007. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 □ Claim(s) 1-3,6-14,16-23 and 26-30 is/are pending in the application. 4a) Of the above claim(s) □ is/are allowed. 6 □ Claim(s) 1-3,6-14,16-23 and 26-30 is/are rejected. 7 □ Claim(s) is/are allowed. 6 □ Claim(s) 1-3,6-14,16-23 and 26-30 is/are rejected. 7 □ Claim(s) □ is/are objected to. 9 □ The specification is objected to by the Examiner. 4pplication Papers 9 □ The provided the provided the provided to the drawing(s) is objected to. Sea 37 CPR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Sea 37 CPR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some *0 □ Nonce of 1. □ Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the c	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
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DETAILED ACTION

This action is in response to the papers filed 5/23/2007. Claims 1-3, 6-14, 16-23, and 26-3 were received for consideration. Claims 4, 5, 15, 16, 24 and 25 were cancelled.

Response to Arguments

Applications arguments with respect to the rejection under 35 USC 101 are persuasive.

Applications arguments with respect to the rejection under 35 USC 112 to lack of antecedent basis are persuasive.

Applications arguments that neither Giles or Schneier teach "a domain, a maximum age, a path, a port, an authentication strength value, an authenticating server identifier, and an access control privilege identifier" is not persuasive. Giles teaches a global time out value valid for the whole domain which is usually a fixed offset added to the creation time; and a cookie inactivity time-out which is a fixed offset added to the cookie creation time (i.e. maximum age); and the domain name of the origin web-server (i.e. a domain).

Applications arguments that neither Giles or Schneier teach "creating an encrypting value based upon the access control data, wherein the creating comprises; hashing the access control data using a hashing algorithm, the hashing resulting in a hash value; and encrypting the hash value" is not persuasive. Giles teaches digital signing the access control date. Schneier teach that digital signatures protocols are often implemented with one-way hash functions in which, a function is applied to a

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document to producing a one-way hash of a document (hash value). The hash (hash value) is encrypted with a private key producing a digital signature of the document.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9, 19 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 9, 19 and 29 also are indefinite because if the third computer system does not have access to the authentication data how is it retrieving the authentication data from an authentication server and storing the authentication data on a cache associated with the third computer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giles et al. (U.S. Patent # 6,986,047) in view of Schneier "Applied Crytography: Protocols, Algorithms, and Source Code in C". Giles teaches with respect to claim 1 and 21, a method of handling client state information, said method comprising: receiving, at

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a first computer system (see figure 3 element 310 origin web server), a first request from a second computer system (see figure 3 element 305 Client), wherein the first request is received over a computer network (see column 3 lines 36-51 and column 7 lines 10-62 i.e. a client sends a HTTP request); identifying access control data pertaining to the second computer system (see figure 11 column 7 lines 10-62 i.e. the origin web-server creates a valid cookie), the access control data includes a domain, a maximum age, a path, a port, an authentication strength value, an authenticating server identifier, and an access control privilege identifier (column 8 line 52 - column 9 line 8 i.e. a global time out value valid for the whole domain (1130) which is usually a fixed offset added to the creation time; and a cookie inactivity time-out (1135) which is a fixed offset added to the cookie creation time; and the domain name of the origin webserver); creating an encrypted value based upon the access control data (see column 8 lines 52-66), wherein the creating comprises digital signing the access control date (i.e. cookie) and encrypting the hash value (see column 8 line 52 - column 9 line 55 i.e. the fields of the first part are encrypted using the key Kc); and storing, on the second computer system, a state management data (see column 9 lines 11-12 i.e. the client cookie may be present in the HTTP request by the client) structure that includes an access control identifier (see column 8 line 66 - column 9 line 8) and the encrypted value (see column 8 lines 52-66). Giles do not explicitly teach hashing the access control data using a hashing algorithm. Schneier teaches that digital signatures protocols are often implemented with one-way hash functions (Schneier page 38). It would have been obvious at the time the invention was made to a person having

ordinary skill in the art to which said subject matter pertains to have use a digital signature protocols that used a one-way hash functions to save time. Therefore one would have be motivated to have used a use a digital signature protocols that used a one-way hash functions to authenticate save and provide message integrity (Schneier page 38).

With respect to 2, 12 and 22, authenticating a user of the second computer system (see column 7 lines 10-62 i.e. user ID and password promt); and caching, on the first computer system, security attributes of the authenticated user that are too sensitive to be included in the state management data structure, wherein the cached security attributes are indexed by the encrypted value and wherein cached security attributes are adapted to re-establish a security context of the authenticated user (column 8 line 52 – column 9 line 8 i.e. the key kc shared by the semi-trusted web-server and the orgin web-server).

With respect to 3, 13 and 23, wherein the access control identifier is selected from the group consisting of the access control data (see column 8 line 52 – column 9 line 8 i.e. the access control identifier is the encrypted part of the access control data (cookie)) and a unique identifier used by the first computer system to map to the access control data stored on an authentication server (column 9 line 9 – column 9 line 55 i.e. the cookie is decrypted by using the domain identifier and the key identifier to select an appropriate decryption key).

With respect to 6, 16 and 26, storing the encrypted value at the first computer system in response to receiving the first request (see column 7 line 10-62 i.e. at step

800 a client sends an HTTP request and after step 820 the orgin web-server creates a cookie according to figure 11 and column 8 line 52 – column 9 line 8 this cookie is digital signed and encrypted with key kc); receiving a second request from the second computer system; retrieving the state management data structure from the second computer system, the retrieving performed in conjunction with the reception of the second request; and comparing the encrypted value included in the retrieved state management data structure with the encrypted value stored at the first computer system (column 9 line 9 – column 9 line 55).

With respect to 7, 17 and 27, re-establishing an authenticated user's security context by using the encrypted value as a key to retrieve the access control data cached on the first computer system (column 8 line 52 – column 9 line 55).

With respect to 8, 9, 18, 19, 28 and 29, authenticating a user of the second computer system, wherein the identifying, creating, and storing are performed in response to successfully authenticating the user (column 7 line 10-62).

With respect to 10, 20 and 30, receiving, at the first computer system, a second request from the second computer system; retrieving the state management data structure from the second computer system, the retrieving performed in conjunction with the reception of the second request (column 9 line 9–55 i.e. process of validating a client cookie and returning client credentials in case the cookie is valid as part of the correlation procedures. The client cookie may be present in the HTTP request by the client); determining that the retrieved state management data structure is stale based on a timestamp included in the state management data structure (see column 9 line 11-55

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i.e. at step 1210 the global time-out and inactivity time-out fields are checked); and authenticating a user of the second computer system in response to the determination (see column 9 line 11 – column 10 line 31).

With respect to claim 11, a first information handling system comprising: one or more processors; a memory accessible by the processors (see column 3 lines 36-51 i.e. it is inherent that a computer has a processor and a memory); a network interface connecting the information handling system to a computer network (see column 3 lines 36-51); a tool for handling client state information, the tool including software effective to (see column 4 lines 21-41); receiving, at a first computer system (see figure 3 element 310 origin web server), a first request from a second computer system (see figure 3 element 305 Client), wherein the first request is received over a computer network (see column 3 lines 36-51 and column 7 lines 10-62 i.e. a client sends a HTTP request); identifying access control data pertaining to the second computer system (see column 7 lines 10-62 and column 8 line 52 – column 9); creating an encrypted value based upon the access control data (see column 8 line 52 - column 9 line 55 i.e. key kc); and storing, on the second computer system, a state management data (i.e. cookie) structure that includes an access control identifier and the encrypted value (see column 7 lines 10-62 and column 8 line 52 – column 9 line 55 i.e. the client cookie may be present in the HTTP request by the client).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to 5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Devin Almeida Patent Examiner 7/5/2007

GILBERTO BARRON JC SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100